

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S20 2	1104	347/14.ccls.	US-PGPUB; USPAT	OR	OFF	2007/07/17 12:51
S20 3	1104	S202	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:04
S20 4	129	347/60.ccls.	US-PGPUB; USPAT	OR	OFF	2007/07/17 12:51
S20 5	129	S204	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 12:51
S20 6	419	347/17.ccls.	US-PGPUB; USPAT	OR	OFF	2007/07/17 12:52
S20 7	419	S206	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 14:30
S20 8	262	347/57.ccls.	US-PGPUB; USPAT	OR	OFF	2007/07/17 12:52
S20 9	262	S208	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 12:52
S21 0	392	347/61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:05

## EAST Search History

S21 2	27	("4097873"   "4611219"   "4750009"   "5124720"   "5208605"   "5327166"   "5344079"   "5349375"   "5359355"   "5398053"   "5412406"   "5412410"   "5428380"   "5469198"   "5473351"   "5480240"   "5486848"   "5559930"   "5563637"   "5581284"   "5587730"   "5598192"   "5612722"   "5627572"   "5631746"   "5650808"   "5714078").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/17 16:52
S21 3	27	("4097873"   "4611219"   "4750009"   "5124720"   "5208605"   "5327166"   "5344079"   "5349375"   "5359355"   "5398053"   "5412406"   "5412410"   "5428380"   "5469198"   "5473351"   "5480240"   "5486848"   "5559930"   "5563637"   "5581284"   "5587730"   "5598192"   "5612722"   "5627572"   "5631746"   "5650808"   "5714078").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/17 16:52
S21 4	24	("5984455").URPN.	USPAT	OR	ON	2007/07/17 16:55
S21 5	0	(inkjet\$3 ink adj jet\$3) near head same (heater resistor (heating near element)) same temperature near (device sensor) same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:04
S21 6	29	temperature near sensor same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:25
S21 7	8	S203 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:24
S21 8	10	S205 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:22

## EAST Search History

S21 9	2	S207 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:24
S22 0	3	S209 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:24
S22 1	1	S210 and S216	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:25
S22 2	0	generate\$3 same (pre-warm pre-heat) near (signal pulse) same omit\$3 same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:31
S22 3	50	generate\$3 same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:32
S22 4	15	S203 and S223	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:32
S22 5	0	omit\$3 near generation near (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:33
S22 6	0	omit\$3 same generation near (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:33

## EAST Search History

S22 7	3	omit\$3 same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:36
S22 8	13	(eliminate\$3 omit\$3) same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:36
S22 9	0	(omit\$3 eliminate\$3) near (pre-warm\$3 pre-heat\$3) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:39
S23 0	129	347/60.ccls.	US-PGPUB; USPAT	OR	OFF	2007/07/24 09:23
S23 1	129	S230	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/24 09:23
S23 2	4	S230 and (heat\$3 adj only)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/24 09:25
S23 3	0	(ink fluid liquid) near (jet\$3 eject\$3 record\$3 discharge\$3) near head same plural near portions same color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 14:09
S23 6	1670	347/43.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 14:09
S23 7	1670	S236	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 14:09

## EAST Search History

S23 8	50	generate\$3 same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:34
S23 9	50	S238	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:33
S24 0	1294	347/14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:33
S24 1	650	347/17.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:33
S24 2	502	347/16.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:34
S24 3	2723	347/19.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:34
S24 4	302	347/57.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:34
S24 5	166	347/60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:34
S24 6	0	S240 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:34

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S247	0	S241 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:34
S248	0	S242 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:34
S249	1	S243 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:35
S250	0	S244 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:35
S251	0	S245 and generate\$3 same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:35
S252	29	temperature near sensor same (pre-warm pre-heat) near (signal pulse)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:35
S253	29	S252	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/25 16:35
S254	0	S240 and temperature near sensor same (pre-warm pre-heat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S255	0	S240 and temperature near sensor same (prewarm preheat) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S256	0	S240 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S257	0	S241 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S258	0	S242 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S259	0	S243 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36
S260	0	S244 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:36

## EAST Search History

S26 1	0	S245 and temperature near sensor same (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:37
S26 2	2	S245 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:37
S26 3	2	S245 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:38
S26 4	0	S244 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:37
S26 5	2	S243 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:37
S26 6	0	S242 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:37
S26 9	2	S241 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:38
S27 0	1	S240 and (prewarm\$3 preheat\$3) near (signal pulse).clm.	US-PGPUB	OR	ON	2007/07/25 16:38
S27 1	439	347/17.ccls.	US-PGPUB; USPAT	OR	OFF	2007/12/14 22:36
S27 2	439	S271	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/14 23:43
S27 3	491	347/16.ccls.	US-PGPUB; USPAT	OR	OFF	2007/12/14 22:36
S27 6	272	347/57.ccls.	US-PGPUB; USPAT	OR	OFF	2007/12/14 22:40
S27 7	272	S276	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 00:20
S27 8	131	347/60.ccls.	US-PGPUB; USPAT	OR	OFF	2007/12/14 22:41
S27 9	131	S278	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/14 22:41

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S28 0	411	347/61.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 01:31
S28 1	416	S272 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/14 23:43
S28 2	254	S277 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 00:20
S28 3	346	S280 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 01:31
S28 4	467	control\$3 same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:40
S28 5	25	S272 and S284	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:16
S28 6	9	S277 and S284	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:16
S28 7	29	S279 and S284	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:16



## EAST Search History

S28 8	5	S280 and S284	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:17
S28 9	31	control\$3 same (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:42
S29 0	2	S272 and S289	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:18
S29 1	0	S277 and S289	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:24
S29 2	0	S279 and S289	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:24
S29 3	0	S280 and S289	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:24
S29 4	47	(stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:43
S29 5	3	S272 and S294	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:31

## EAST Search History

S29 6	0	S277 and S294	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:31
S29 7	4	S279 and S294	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:32
S29 8	0	S280 and S294	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:32
S29 9	3	S272 and control\$3 same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:41
S30 0	1	S277 and control\$3 same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:41
S30 1	2	S279 and control\$3 same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:42
S30 2	0	S280 and control\$3 same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:42
S30 3	1	S272 and control\$3 same (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:43
S30 4	0	S277 and control\$3 same (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:43
S30 5	0	S279 and control\$3 same (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:43
S30 7	0	S280 and control\$3 same (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB	OR	ON	2007/12/15 02:43

## EAST Search History

S30 8	1	S272 and (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB; EPO	OR	ON	2007/12/15 02:43
S30 9	0	S277 and (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB; EPO	OR	ON	2007/12/15 02:43
S31 0	0	S279 and (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB; EPO	OR	ON	2007/12/15 02:43
S31 1	0	S280 and (stop\$3 cease\$3 omit\$3) same (pre-heat\$3 pre-warm\$3 preheat\$3 prewarm\$3) near (pulse signal).clm.	US-PGPUB; EPO	OR	ON	2007/12/15 02:44
S31 2	1	(omit\$3 stop\$3 cease\$3) near generate\$3 near (preheat\$3 prewarm\$3 pre-heat\$3 pre-warm\$3) near (pulse signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:52
S31 3	1	(omit\$3 stop\$3 cease\$3) same generate\$3 near (preheat\$3 prewarm\$3 pre-heat\$3 pre-warm\$3) near (pulse signal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 02:57
S31 4	2	"20050088474"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/15 04:23